Small Business Innovation Research/Small Business Tech Transfer

Improved High-Rejection Filters and MEMS-Enabled Smart Reconfigurable Antennas, Phase I

Completed Technology Project (2008 - 2009)



Project Introduction

Proposed work envisions development of high-rejection filters and smart reconfigurable antennas using MEMS switches. Adaptive feature of the proposed antenna provides higher S/N ratio and extends range for surface-to-surface communications. Tunable high-rejection filters lend themselves easily to software defined radios.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
	Lead Organization	NASA Center	Houston, Texas
Virtual EM Inc.	Supporting Organization	Industry	Ann Arbor, Michigan

Primary U.S. Work Locations	
Michigan	Texas



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Tayfun Ozdemir

Technology Areas

Primary:

